



Sea Grant 101

Science Serving America's Coasts

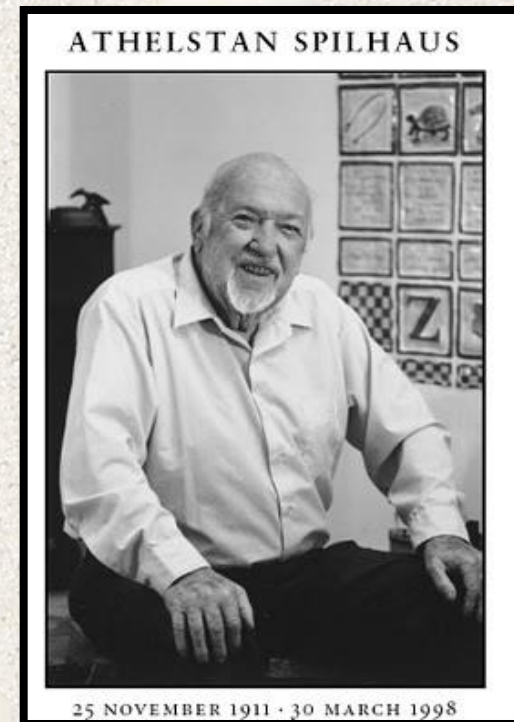
Nikola Garber, PhD
Acting Director
August, 2015

Athelstan Spilhaus

"I have suggested the establishment of 'sea-grant colleges' in existing universities that wish to develop oceanic work . . .

These would be modernized parallels of the great developments in agriculture and the mechanic arts which were occasioned by the Land-Grant Act of about a hundred years ago . . .

Establishment of the land-grant colleges was one of the best investments this nation ever made. That same kind of imagination and foresight should be applied to exploitation of the sea." – Science, 1964



1966 – National Sea Grant College Program Authorized in Legislation

Sea Grant's Mission

“Enhance the practical use and conservation of coastal, marine and Great Lakes resources to create a sustainable economy and environment”



Sea Grant's Role

Sea Grant is a federal-state partnership that turns research into action supporting science-based, sustainable practices to ensure our coastal communities remain engines of economic growth in a rapidly changing world.



Sea Grant Legislation

- Required state program match of 2:1 (33% of entire award)
- 5% unmatched dollars based on criteria
- Sea Grant Knauss fellowships – unmatched and no overhead allowed

What is Sea Grant?



Based at universities across the country, Sea Grant works to provide research and outreach that help build and grow innovative businesses along America's oceans and Great Lakes, protect against environmental destruction and natural disasters, and train the next generation of leaders.

How Sea Grant Works

Sea Grant provides research, education and outreach for decision-makers; Sea Grant is a bridge between government, academia, industry, scientists and citizens

Sea Grant Programs



Sea Grant

Return on Investment

There is at least one dollar of state and local matching funds for every two federal dollars spent.

The work Sea Grant does earns a 750 percent return on federal investment, creating jobs, and ensuring Americans can live near, vacation at, and earn a living from our oceans and Great Lakes for generations to come.



For more performance measures and metrics:

<http://seagrants.noaa.gov/WhatWeDo/PerformanceMeasuresandMetrics.aspx>

Sea Grant's Niche

- **Sea Grant provides relevant and timely information**
 - Research based on urgent needs of coastal managers and residents
 - Place-based science
- **Sea Grant gets information to users**
 - Outreach network puts research results to use
- **Sea Grant is well respected & consistent**
 - Permanent, full-time extension agents
 - Long-term investments



Leadership: Sea Grant National Office

National Sea Grant Office (NSGO):

- Provides **grants to 33** Sea Grant programs
- Mandated to **manage federal** *and* **match** dollars
- Limits **costs** of **administration** to **5%** of **appropriations**
- Oversees **program evaluation** via PIE process
- Manages **funding competitions**
- Manages **Sea Grant Knauss** and **NMFS-Sea Grant Fellowships**
- Provides **national leadership** for Research, Education, Extension, Communication and Fiscal networks

Leadership: Sea Grant Advisory Board

The Sea Grant Advisory Board is a legislated FACA committee appointed by the Secretary of Commerce



Leadership: Sea Grant Association

- Sea Grant programs are represented by the Sea Grant Association (SGA)
- SGA is a non-profit membership of universities that house Sea Grant programs



What does Sea Grant offer to NOAA and other Federal Agencies?

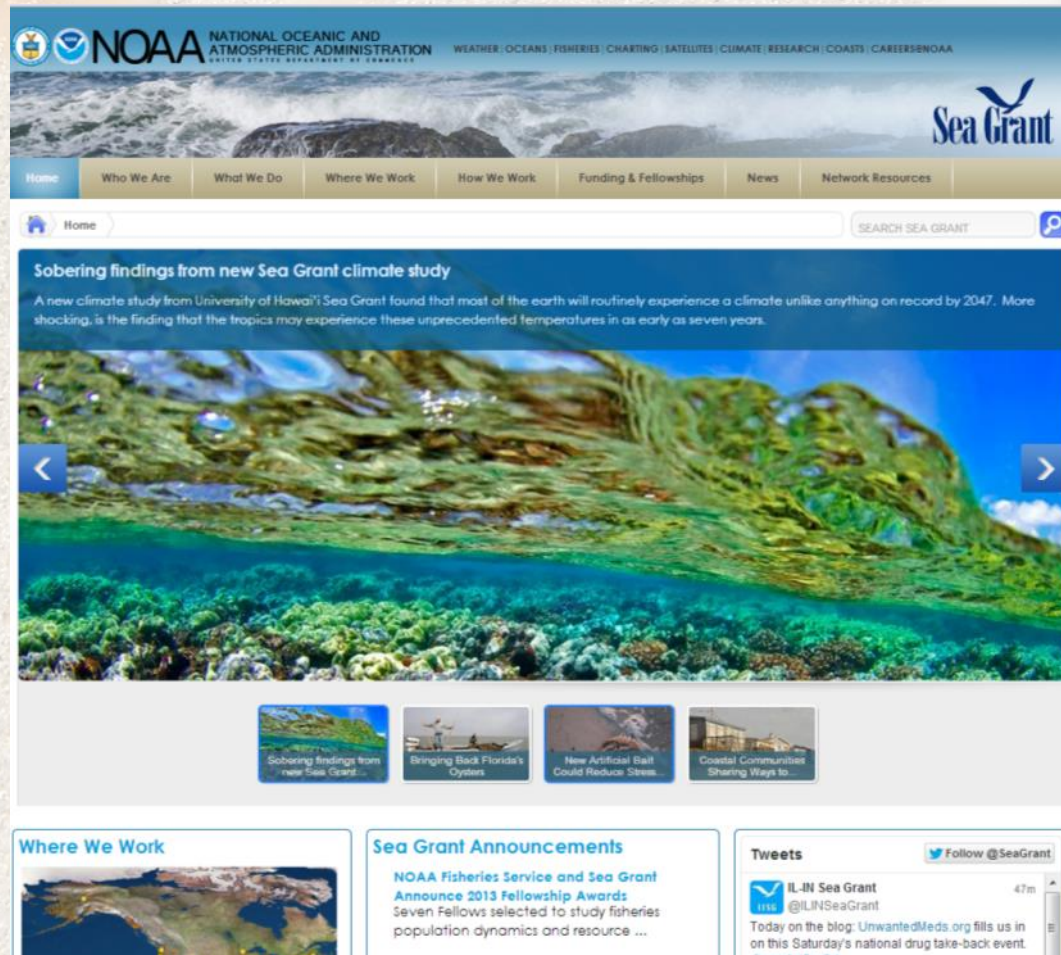
- **Engagement with universities** – applied to oceans, coasts, Great Lakes
- **Stable national infrastructure** – **1000 university employees** on the ground in every coastal state and territory in the U.S.
 - Draws on more than **2,500** scientists, engineers, law and policy specialists, public outreach experts, educators and students from more than **200 institutions**
- Support for **250-300 research projects** annually – about **1000 graduate students** and nearly **400 research FTEs**
- Work with over **300 industry partners** and **1000 local, state, and regional partners**

FY 2015 Budget

	FY15 Appropriation	FY16 Request
Base	\$62.8M	\$61.5M *
Aquaculture	\$4.5M	\$7.0M *
STEM Education	[included in base]	[Eliminated from Base]
Total	\$67.3M	\$68.5M

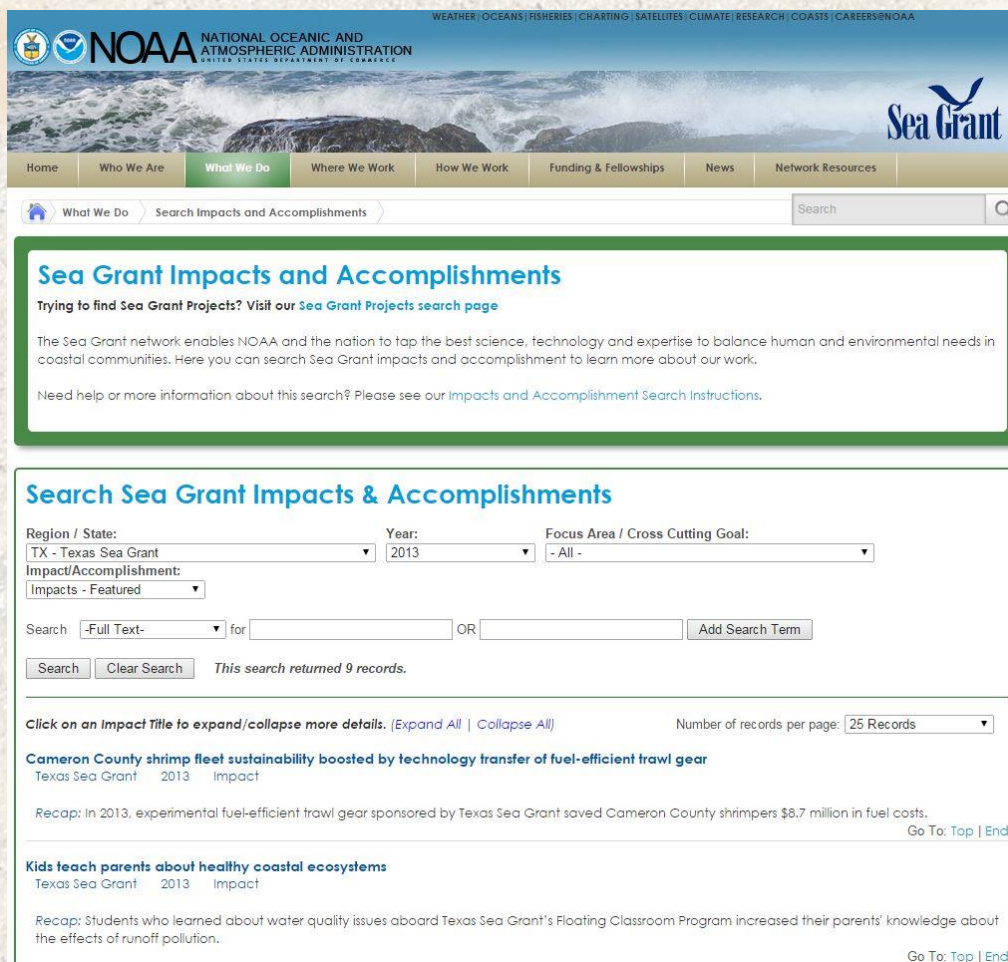
- * FY16 Request – Base is level with FY15 Request, Aquaculture is increased by \$5M
- Resilience research now part of base
- Grand Challenge not included for FY15 or FY16

Website



seagrant.noaa.gov

Search Impacts and Projects



NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
UNITED STATES DEPARTMENT OF COMMERCE

WEATHER | OCEANS | FISHERIES | CHARTING | SATELLITES | CLIMATE | RESEARCH | COASTS | CAREERS@NOAA

Home Who We Are What We Do Where We Work How We Work Funding & Fellowships News Network Resources

What We Do Search Impacts and Accomplishments Search

Sea Grant Impacts and Accomplishments

Trying to find Sea Grant Projects? Visit our [Sea Grant Projects search page](#)

The Sea Grant network enables NOAA and the nation to tap the best science, technology and expertise to balance human and environmental needs in coastal communities. Here you can search Sea Grant impacts and accomplishment to learn more about our work.

Need help or more information about this search? Please see our [Impacts and Accomplishment Search Instructions](#).

Search Sea Grant Impacts & Accomplishments

Region / State: TX - Texas Sea Grant Year: 2013 Focus Area / Cross Cutting Goal: - All -

Impact/Accomplishment: Impacts - Featured

Search -Full Text- for OR Add Search Term

Search Clear Search This search returned 9 records.

Click on an Impact Title to expand/collapse more details. (Expand All | Collapse All) Number of records per page: 25 Records

Cameron County shrimp fleet sustainability boosted by technology transfer of fuel-efficient trawl gear
Texas Sea Grant 2013 Impact

Recap: In 2013, experimental fuel-efficient trawl gear sponsored by Texas Sea Grant saved Cameron County shrimpers \$8.7 million in fuel costs.
[Go To: Top | End](#)

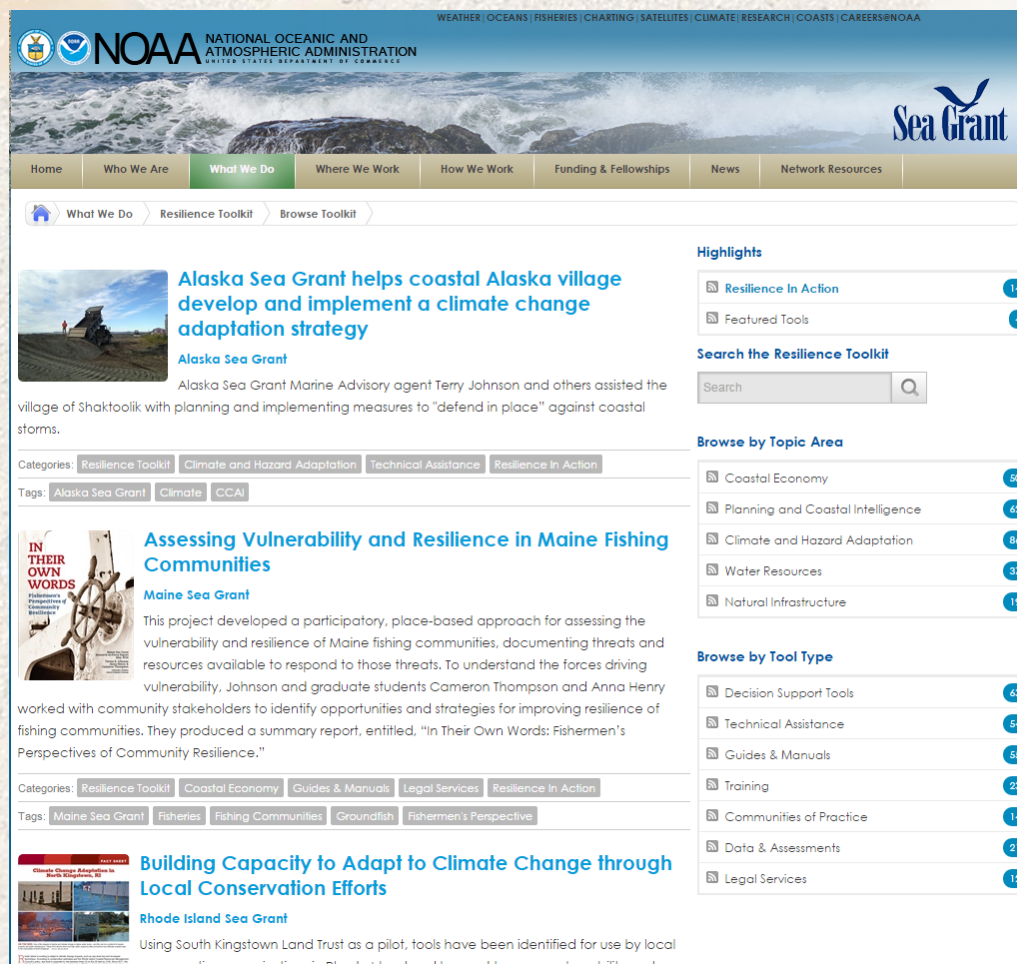
Kids teach parents about healthy coastal ecosystems
Texas Sea Grant 2013 Impact

Recap: Students who learned about water quality issues aboard Texas Sea Grant's Floating Classroom Program increased their parents' knowledge about the effects of runoff pollution.
[Go To: Top | End](#)

<http://seagrants.noaa.gov/WhatWeDo/SearchImpactsandAccomplishments.aspx>

<http://seagrants.noaa.gov/WhatWeDo/Searchprojects.aspx>

Sea Grant Resiliency Toolkit



The screenshot shows the NOAA Sea Grant Resiliency Toolkit website. The header includes the NOAA logo and navigation links: Home, Who We Are, What We Do (selected), Where We Work, How We Work, Funding & Fellowships, News, and Network Resources. Below the header, there's a breadcrumb trail: What We Do > Resiliency Toolkit > Browse Toolkit. The main content area features three featured articles:

- Alaska Sea Grant helps coastal Alaska village develop and implement a climate change adaptation strategy** by Alaska Sea Grant. The article describes how Alaska Sea Grant Marine Advisory agent Terry Johnson and others assisted the village of Shaktoolik with planning and implementing measures to "defend in place" against coastal storms.
- Assessing Vulnerability and Resilience in Maine Fishing Communities** by Maine Sea Grant. The article describes a participatory, place-based approach for assessing the vulnerability and resilience of Maine fishing communities, documenting threats and resources available to respond to those threats.
- Building Capacity to Adapt to Climate Change through Local Conservation Efforts** by Rhode Island Sea Grant. The article describes how tools have been identified for use by local conservation organizations in Rhode Island and beyond to assess vulnerability and

On the right side, there are three sections:

- Highlights:** Resilience In Action (14), Featured Tools (4).
- Search the Resiliency Toolkit:** A search bar with a magnifying glass icon.
- Browse by Topic Area:** Coastal Economy (50), Planning and Coastal Intelligence (62), Climate and Hazard Adaptation (86), Water Resources (37), Natural Infrastructure (19).
- Browse by Tool Type:** Decision Support Tools (63), Technical Assistance (54), Guides & Manuals (55), Training (23), Communities of Practice (14), Data & Assessments (21), Legal Services (12).

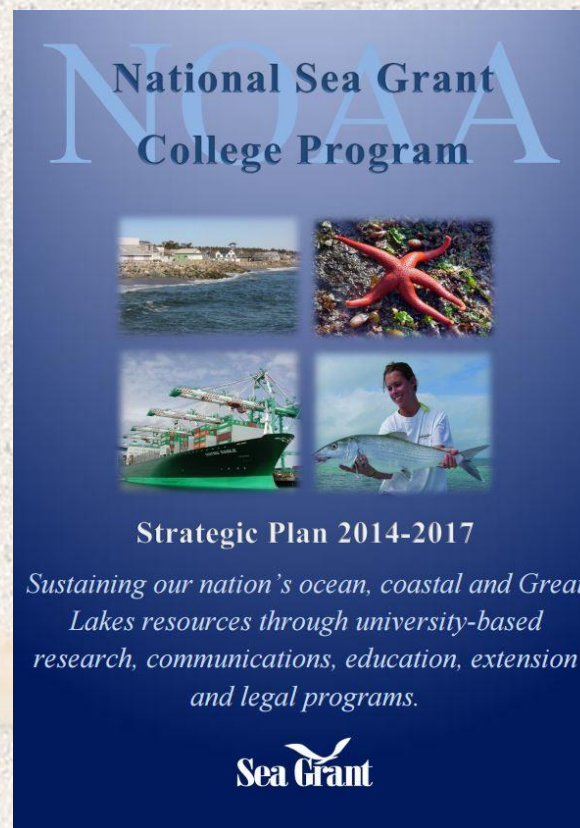
<http://seagrants.noaa.gov/WhatWeDo/ResiliencyToolkit.aspx>

Sea Grant

2014-2017 Strategic Plan

National Focus Areas (2014-2017)

- Resilient Communities and Economies
- Sustainable Fisheries & Aquaculture
- Healthy Coastal Ecosystems
- Environmental Literacy & Workforce Development



<http://seagrants.noaa.gov/WhoWeAre/StrategicPlan.aspx>

Sea Grant Regional

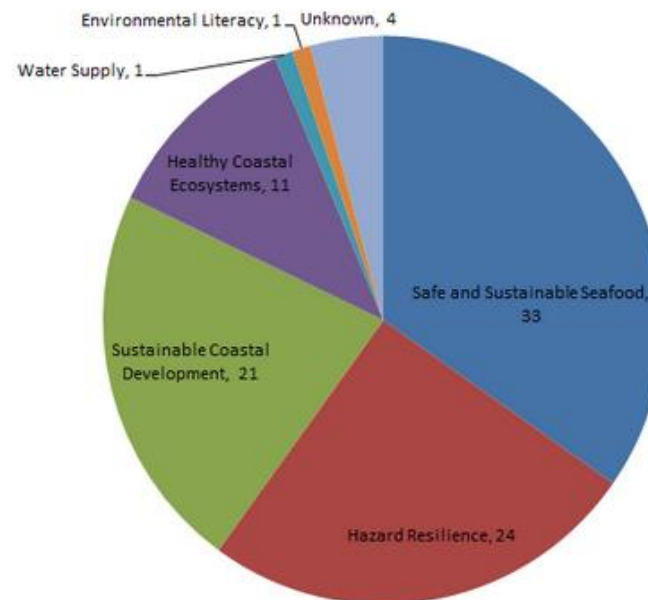
Regional Research and Information Planning

- These are regional plans – not Sea Grant plans for the region, not regional plans for Sea Grant
- “Buy-in” is the key – bringing others into the process
 - Local and regional stakeholders, state government
 - Fishery management councils, regional observing associations, CZM

Sea Grant Social Science

- Improve the Nation's understanding of integrated social, economic, and environmental systems in our coastal areas
- 2014-2015 Research cycle – 29 programs funded 84 social science research projects totaling an investment of nearly \$6.5M

Sea Grant Social Science by Focus Area:



Sea Grant Performance Measures (one year period)

- **6,500** Businesses created or sustained
- **17,500** Jobs created or sustained
- **\$450M** Economic (market and non-market) impacts derived from Sea Grant activities
- Sea Grant's ability to **leverage federal funding**, generate powerful **partnerships** and provide **technical assistance** to industry, enabled the Program to contribute this estimated benefit to the nation.

Source: 2014 Annual Reports

Sea Grant Partnerships

In resource-limited environments, partnerships are key to meeting our mission

All levels are critical: local, state, regional, federal

Within NOAA: NMFS, NWS, OAR, NOS, Climate Program, and other coastal programs and laboratories

At the National level, some other agencies include:

- EPA (Smart Growth, Coastal Community Development, Great Lakes Office)
- Coast Guard, USFWS (Invasive species, ballast water)
- FEMA

Questions?

Phone: 301-734-1088

Website: <http://seagrants.noaa.gov>

Twitter: <http://twitter.com/SeaGrant>

Facebook: <http://www.facebook.com/NOAA.SeaGrant>